

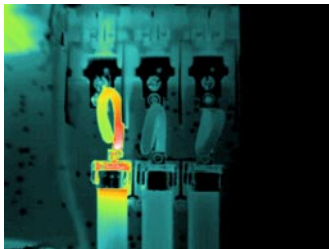
# MikroScan 7604



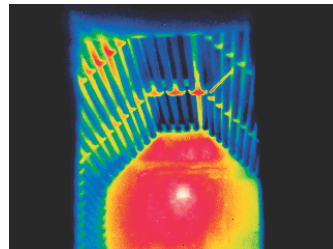
**T**he MikroScan 7604 represents another milestone in innovative infrared thermometry. This fully-radiometric IR camera with its high-temperature functionality makes it the perfect tool for PPM Inspections and radiometric thermal imaging of furnaces and boilers.

The MikroScan 7604 is ergonomically designed for comfortable one-handed point-and-shoot operation, includes on-board digital voice recording, and can simultaneously record high-definition 14-bit thermal images with digital visual images. The MikroScan 7604 is completely self-contained in a splash-proof metal case, is battery operated, and stores images and data to PCMCIA cards. Images can also be viewed in real-time via the video output or through an optional built-in IEEE 1394 (Firewire®) interface.

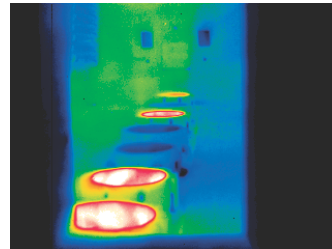
The MikroScan 7604 comes standard with extensive onboard image processing software. It also can be remotely controlled from a PC using optional software developed by Mikron, which provides additional analysis and reporting capabilities.



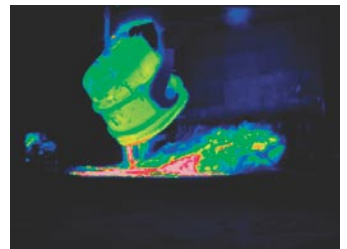
Connector at Fuse



Inside Furnace



Inside Boiler



Refractory Degradation

**M**ikron has been an innovative leader in the field of infrared non-contact temperature measurement since 1969. Mikron offers Value Imageering to help customers solve their most challenging application problems. Value Imageering is a turnkey package, consisting of complete engineering, design, and installation services to meet the most severe and difficult thermal imaging system requirements. Today, the company provides industrial customers and R&D laboratories with accurate instrumentation ranging from convenient portable cameras to complete thermal imaging systems.

## Technical Data

<b>MikroScan 7604</b>		
<b>Performance</b>	Temperature Range:	Range 1: -40°C to 120°C Range 2: 0°C to 500°C Range 3: 400°C to 1600°C (Optional)
	Measurement Accuracy:	±2% or 2°C of reading
	Field of View:	21.7°(H) x 16.4°(V)
	Focus Range:	30 cm to infinity
	Instantaneous FOV / Spatial Resolution:	1.2 mrad
	Image Update Rate:	60 frames per second
	Resolution:	0.06°C (at 30°C 60Hz) or 0.03°C (at 30°C Σ12)
	Detector:	320 x 240 Uncooled Focal Plane Array Microbolometer
	Spectral Band:	8.0 to 14.0 μm for range 1 & 2. 3.9 μm for range 3
	<b>Display Functions</b>	B&W/Color Image:
Isothermal Band Display:		Max. 4 bands
Multi-image display:		Replay 12 thermal images
Multi-Sense Display:		Provided
Line Profile:		X, Y line profile (waveform display)
<b>Presentation</b>	A/D Resolution	14 bit
	Annotation:	Text and voice annotation (30 sec. per image)
	Movie Recording:	Real-time memory (1664 images @ 60Hz)
	Image Processing Functions:	Variable level/sense; Multi-point temperature display (10 pts); Multi-point emissivity display (10 pts); ΔT Display; Max/Min (peak hold) temperature display; Alarm (full screen or specified box); 2x and 4x digital zoom (Run/Freeze); Box setting (max 5 boxes)
	Display:	Viewfinder and 3.5 inch LCD monitor
	Video Output:	NTSC/PAL composite video signal, S-Video
	Image Zoom:	2:1, 4:1 (with spatial filtering)
<b>Visual Camera</b>	Pixels:	0.41 Mega pixels
	Effective Image Pixels:	752 (H) x 480 (V) pixels
	Field of View:	30.1° (H) x 22.7°(V)
	Sensitivity:	1 lux
	Focusing distance:	30 cm to infinity
	Auto Exposure:	Provided
	Video Signal:	NTSC
<b>Measurement</b>	Measuring Functions:	Run/Freeze
	S/N improvement:	Σ2, Σ8, Σ16, and spatial filter ON/OFF
	Alarm:	Screen display and alarm sound (ON/OFF)
	Interval Measurement:	Recording on memory card: 2 to 3600 sec. interval; trigger function
	Emissivity Correction:	0.10 to 1.00 (at 0.01 steps)
	Environmental Temperature Correction:	Provided (including interval NUC)
	Background Compensation:	Provided
	User Setup:	Pre-registration of user setup (max. 10 setups)
	Auto Functions:	Full automatic (level, sense, focus); level trace, auto gain control
<b>Interface</b>	Communication:	RS-232/C
	Storage Device:	Compact Flash Memory Card (stores Thermal Image in .SIT or .BMP file format and Visible image in .SIT or .JPEG file format)
	Video Signal Output:	NTSC/PAL composite video signal, S-video
	Remote Control Operation:	IEEE1394 (Firewire®) Interface
<b>Environmental</b>	Operating Temperature:	-15°C to 50°C 90% Relative Humidity or less (not condensed)
	Storage Temperature:	-40°C to 70°C 90% Relative Humidity or less (not condensed)
	Environmental Protection:	IP 54 (IEC60529)
	Shock:	30G (IEC60068-2-27)
	Vibration:	3G (IEC60068-2-6)
<b>Electrical</b>	Power Supply:	AC adaptor: 100V to 240V, DC 7.2V (nominal)
	Power Consumption:	Approx. 6W (typical)
	Battery Operation:	Approx. 2 hours 30 minutes
<b>Physical Characteristics:</b>	Camera Dimensions:	4.3" x 4.5" x 7.4" (excluding projection)
	Camera Weight:	2.9 lb (excluding battery and LCD) 3.5 lb. (including battery and LCD)

Mikron reserves the right to change specifications to reflect the latest changes in technology and improvements at any time without notice. These changes will be reflected in subsequent editions of our literature when warranted. FireWire is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.



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